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*** It is now 4/27/09 10:18:13 AM ***
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- CLAIMS/Current Patent Legal Status (File 123)
- CLAIMS/U.S. Patents (File 340)
- Chinese Patent Abstracts in English (File 344)
- Derwent Patents Citation Index (File 342)
- Derwent World Patents Index (for users in Japan) (File 352)
- Derwent World Patents Index First View (File 331)
- Derwent World Patents Index (File 351)
- Derwent World Patents Index (File 350)
- Ei EnCompassPat (File 353)
- European Patents Fulltext (File 348)
- French Patents (File 371)
- German Patents Fulltext (File 324)
- IMS Patent Focus (File 447, 947)
- INPADOC/Family and Legal Status (File 345)
- JAPIO Patent Abstracts of Japan (File 347)
- LitAlert (File 670)
- U.S. Patents Fulltext (1971-1975) (File 652)

- U.S. Patents Fulltext (1976-present) (File 654)
- WIPO/PCT Patents Fulltext (File 349)
- TRADEMARKSCAN U.S. Federal (File 226)

#### DialogLink 5 Release Notes

New features available in the latest release of DialogLink 5 (August 2006)

- Ability to resize images for easier incorporation into DialogLink Reports
- New settings allow users to be prompted to save Dialog search sessions in the format of their choice (Microsoft Word, RTF, PDF, HTML, or TEXT)
- Ability to set up Dialog Alerts by Chemical Structures and the addition of Index Chemicus as a structure searchable database
- · Support for connections to STN Germany and STN Japan services

## Show Preferences for details

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\*\*\* ANNOUNCEMENTS \*\*\*

\*\*

\*\*\* FREE FILE OF THE MONTH (April) Promt and Trade & Industry Database (Files 16 and 148)

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#### NEW FILE

\*\*\*File 651, TRADEMARKSCAN(R) - China. See HELP NEWS 651 for details.
RESUMED UPDATING

\*\*\*File 523, D&B European Financial Records

. .

# RELOADS COMPLETED

- \*\*\*Files 154&155, MEDLINE(R)
- \*\*\*File 669, TRADEMARKSCAN(R) Japan
- \*\*\*File 126, TRADEMARKSCAN(R) United Kingdom
- \*\*\*File 228, TRADEMARKSCAN(R) Spain
- \*\*\*File 672, TRADEMARKSCAN(R) Germany
- \*\*\*File 655, TRADEMARKSCAN(R) Korea
- \*\*\*File 656, TRADEMARKSCAN(R) Australia
- \*\*\*File 657, TRADEMARKSCAN(R) France
- \*\*\*File 673, TRADEMARKSCAN(R) Italy

#### \*\*\*

# FILES RENAMED

\*\*\*File 321, PLASPEC now known as Plastic Properties Database

### FILES REMOVED

- \*\*\*File 301, CHEMNAME please use File 398 ChemSearch
- \*\*\*File 388, PEDS: Defense Program Summaries
- \*\*\*File 588, DMS-FI Contract Awards

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? Help Off Line
Connecting to Suzanne Noakes - Dialog - 276629
Connected to Dialog via SMS00415917
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? b 155 biosci medicine 399

## [File 155] MEDLINE(R) 1950-2009/Apr 24 (c) format only 2009 Dialog. All rights reserved.

[File 5] Biosis Previews(R) 1926-2009/Apr W3

(c) 2009 The Thomson Corporation, All rights reserved.

[File 24] CSA Life Sciences Abstracts 1966-2009/Jul

(c) 2009 CSA. All rights reserved.

[File 28] Oceanic Abstracts 1966-2009/Jun

(c) 2009 CSA. All rights reserved.

[File 34] SciSearch(R) Cited Ref Sci 1990-2009/Apr W2

(c) 2009 The Thomson Corp. All rights reserved.

[File 35] Dissertation Abs Online 1861-2009/Mar.

(c) 2009 ProQuest Info&Learning. All rights reserved.

[File 40] Enviroline(R) 1975-2008/May

(c) 2008 Congressional Information Service. All rights reserved.

File 40: This file is closed and will no longer update. For similar data, please search File 76-Environmental\* Sciences.

[File 411 Pollution Abstracts 1966-2009/Jul

(c) 2009 CSA. All rights reserved.

[File 44] Aquatic Science & Fisheries Abstracts 1966-2009/Jun

(c) 2009 CSA. All rights reserved.

[File 45] EMCare 2009/Apr W2 (c) 2009 Elsevier B.V. All rights reserved.

[File 50] CAB Abstracts 1972-2009/Apr W3 (c) 2009 CAB International. All rights reserved.

\*File 50: The file has been reloaded and accession numbers have changed. See HELP NEWS50 for information.

[File 65] Inside Conferences 1993-2009/Apr 23

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[File 71] ELSEVIER BIOBASE 1994-2009/Apr W4

(c) 2009 Elsevier B.V. All rights reserved.

\*File 71: The file has been reloaded. Accession numbers have changed.

File 721 EMBASE 1993-2009/Apr 24

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- [File 73] EMBASE 1974-2009/Apr 24
- (c) 2009 Elsevier B.V. All rights reserved.
- [File 76] Environmental Sciences 1966-2009/Jul
- (c) 2009 CSA. All rights reserved.
- [File 91] MANTIS(TM) 1880-2009/Mar
- 2001 (c) Action Potential. All rights reserved.
- [File 98] General Sci Abs 1984-2009/Apr
- (c) 2009 The HW Wilson Co. All rights reserved.
- [File 110] WasteInfo 1974-2002/Jul
- (c) 2002 AEA Techn Env. All rights reserved.
- \*File 110: This file is closed (no updates)
- [File 135] NewsRx Weekly Reports 1995-2009/Apr W2
- (c) 2009 NewsRx. All rights reserved.
- [File 136] BioEngineering Abstracts 1966-2007/Jan
- (c) 2007 CSA. All rights reserved.
- \*File 136; This file is closed.
- [File 143] Biol. & Agric. Index 1983-2009/Mar
- (c) 2009 The HW Wilson Co. All rights reserved.
- [File 144] Pascal 1973-2009/Apr W4
- (c) 2009 INIST/CNRS. All rights reserved.
- [File 154] MEDLINE(R) 1990-2009/Apr 24
- (c) format only 2009 Dialog. All rights reserved.
- [File 164] Allied & Complementary Medicine 1984-2009/Apr
- (c) 2009 BLHCIS. All rights reserved.
- [File 172] EMBASE Alert 2009/Apr 24
- (c) 2009 Elsevier B.V. All rights reserved.
- [File 185] Zoological Record Online(R) 1864-2009/Apr
- (c) 2009 The Thomson Corp. All rights reserved.
- [File 357] Derwent Biotech Res.  $\_1982\text{-}2009/\text{Mar}\ \text{W3}$
- (c) 2009 Thomson Reuters. All rights reserved.
- [File 369] New Scientist 1994-2009/Apr W2
- (c) 2009 Reed Business Information Ltd. All rights reserved.
- [File 370] **Science** 1996-1999/Jul W3 (c) 1999 AAAS, All rights reserved.
- \*File 370: This file is closed (no updates). Use File 47 for more current information.
- [File 391] Beilstein Database Reactions 2008/Q2
- (c) 2008 Beilstein GmbH. All rights reserved.
- [File 434] SciSearch(R) Cited Ref Sci 1974-1989/Dec
- (c) 2006 The Thomson Corp. All rights reserved.

## [File 467] ExtraMED(tm) 2000/Dec

(c) 2001 Informania Ltd. All rights reserved.

## [File 138] Physical Education Index 1990-2009/Jun

(c) 2009 CSA. All rights reserved.

# [File 149] TGG Health&Wellness DB(SM) 1976-2009/Mar W4

(c) 2009 Gale/Cengage. All rights reserved.

## [File 156] ToxFile 1965-2009/Apr W3

(c) format only 2009 Dialog. All rights reserved.

# [File 159] Cancerlit 1975-2002/Oct

(c) format only 2002 Dialog. All rights reserved.

## [File 162] Global Health 1983-2009/Apr W3

(c) 2009 CAB International. All rights reserved.

\*File 162: The file has been reloaded and accession numbers have changed. See HELP NEWS 162 for information.

[File 266] FEDRIP 2009/Jan Comp & dist by NTIS, Intl Copyright All Rights Res. All rights reserved.

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# [File 399] **CA SEARCH(R)** 1967-2009/UD=15018

- (c) 2009 American Chemical Society. All rights reserved.
- \*File 399: Use is subject to the terms of your user/customer agreement. IPCR/8 classification codes now searchable as IC=. See HELP NEWSIPCR.

## [File 444] New England Journal of Med. 1985-2009/Jan W2

(c) 2009 Mass. Med. Soc. All rights reserved.

? s (protein triblock copolymer)

21

S S2(N5)(PROTEIN OR PEPTIDE)

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? s s2(N5)(protein or peptide or elastin or ELP)
         4857
                S2
     17134864
              PROTEIN
      2926538
                PERTIDE
        58686 ELASTIN
        3092 ELP
S4
           25 S S2(N5) (PROTEIN OR PEPTIDE OR ELASTIN OR ELP)
? rd
>>>W: Duplicate detection is not supported for File 391.
Records from unsupported files will be retained in the RD set.
$5
           25 RD (UNIOUE ITEMS)
? t s5/medium, k/all
>>>W: KWIC option is not available in file(s): 399
5/K/1 (Item 1 from file: 34)
 Fulltext available through: STIC Full Text Retrieval Options
SciSearch(R) Cited Ref Sci
(c) 2009 The Thomson Corp. All rights reserved.
```

Author: Dayananda K; He C; Lee DS (REPRINT)

Corporate Source: Sungkyunkwan Univ,Dept Polymer Sci & Engn,Suwon 440746/Gyeonggi/South Korea/ (REPRINT); Sungkyunkwan Univ,Dept Polymer Sci & Engn,Suwon 440746/Gyeonggi/South Korea/

In situ gelling aqueous solutions of pH- and temperature-sensitive poly(ester amino urethane)s

Journal: POLYMER, 2008, V 49, N21 (OCT 6), P 4620-4625

18421438 Genuine Article#: 360MZ No. References: 47

ISSN: 0032-3861 Publication date: 20081006

 ${\bf Publisher:}$  ELSEVIER SCI LTD , THE BOULEVARD, LANGFORD LANE, KIDLINGTON, OXFORD OX5 1GB, OXON, ENGLAND

Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

Identifiers-- ...BIODEGRADABLE BLOCK-COPOLYMERS; TRIBLOCK COPOLYMER;

THERMOREVERSIBLE GELATION; MULTIBLOCK COPOLYMERS; PROTEIN DELIVERY; PHASE-TRANSITION: DRUG-DELIVERY: HYDROGELS: PEG: BEHAVIOR

Research Fronts:

5/K/2 (Item 2 from file: 34)

Fulltext available through: STIC Full Text Retrieval Options

SciSearch(R) Cited Ref Sci

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18280932 Genuine Article#: 347DJ No. References: 44

 $Formation \ of \ reversible \ shell \ cross-linked \ micelles \ from \ the \ biodegradable \ amphiphilic \ diblock \ copolymer \ poly(L-cysteine)-block-poly(L-lactide)$ 

Author: Sun J: Chen XS: Lu TC: Liu S: Tian HY: Guo ZP: Jing XB (REPRINT)

Corporate Source: Chinese Acad Sci, State Key Lab Polymer Phys & Chem, Changchun Inst Appl

Chem, Changchun 130022//Peoples R China/ (REPRINT); Chinese Acad Sci, State Key Lab Polymer Phys & Chem,

Changchun Inst Appl Chem, Changchun 130022//Peoples R China/; Chinese Acad Sci, Grad Sch, Beijing

100039//Peoples R China/

Journal: LANGMUIR, 2008, V 24, N18 (SEP 16), P 10099-10106

ISSN: 0743-7463 Publication date: 20080916

Publisher: AMER CHEMICAL SOC, 1155 16TH ST, NW, WASHINGTON, DC 20036 USA

Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

Identifiers-- ...N-CARBOXYANHYDRIDES; TRIBLOCK COPOLYMER; DISULFIDE; POLYMERIZATION;

ACID); DELIVERY; PEPTIDE; WATER; CORE; CONJUGATION

Research Fronts:

5/K/3 (Item 3 from file: 34)

Fulltext available through: STIC Full Text Retrieval Options

SciSearch(R) Cited Ref Sci

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17567179 Genuine Article#: 271JM No. References: 56

Validation and divergence of the activation energy barrier crossing transition at the AOT/Lecithin reverse micellar interface

Author: Narayanan SS; Sinha SS; Sarkar R; Pal SK (REPRINT)

Corporate Source: SN Bose Natl Ctr Basic Sci, Unit Nano Sci & Technol, Dept Chem Biol & Macromol Sci, Block DJ, Sector 3/Calcutta 700098/India/ (REPRINT); SN Bose Natl Ctr Basic Sci, Unit Nano Sci & Technol, Dept Chem Biol & Macromol Sci, Calcutta 700098/India/

Journal: JOURNAL OF PHYSICAL CHEMISTRY B, 2008, V 112, N10 (MAR 13), P 2859-2867

ISSN: 1520-6106 Publication date: 20080313

Publisher: AMER CHEMICAL SOC, 1155 16TH ST, NW, WASHINGTON, DC 20036 USA

Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

Identifiers---...TEMPERATURE-DEPENDENT SOLVATION; WATER-MOLECULES; PHOTOPHYSICAL PROPERTIES: DIELECTRIC-RELAXATION: ROTATIONAL RELAXATION: TRIBLOCK COPOLYMER:

POLAR SOLVATION: DYNAMICS: PROTEIN: HYDRATION

Research Fronts:

5/K/4 (Item 4 from file: 34)

Fulltext available through: STIC Full Text Retrieval Options

SciSearch(R) Cited Ref Sci

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17423883 Genuine Article#: 260UT No. References: 46

## Injectable block copolymer hydrogels for sustained release of a PEGylated drug

Author: Yu L; Chang GT; Zhang H; Ding JD (REPRINT)

Corporate Source: Fudan Univ,Minist Educ Res, Dept Macromol Sci, Adv Mat Lab,Key Lab Mol Engn Polymer,Shanghai 200433//Peoples R China/ (REPRINT); Fudan Univ,Minist Educ Res, Dept Macromol Sci, Adv

Mat Lab, Key Lab Mol Engn Polymer, Shanghai 200433//Peoples R China/

Journal: INTERNATIONAL JOURNAL OF PHARMACEUTICS, 2008, V 348, N1-2 (FEB 4), P 95-106

ISSN: 0378-5173 Publication date: 20080204

Publisher: ELSEVIER SCIENCE BV, PO BOX 211, 1000 AE AMSTERDAM, NETHERLANDS

Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

Identifiers-- ...MODEL PROTEIN DRUGS; DELIVERY-SYSTEMS; TRIBLOCK COPOLYMER; AQUEOUS-SOLUTIONS; THERMOSENSITIVE HYDROGEL; MICELLAR-SOLUTIONS; PLGA MICROSPHERES;

ETHYLENE-OXIDE; GENE DELIVERY; GEL MATRIX

Research Fronts:

5/K/5 (Item 5 from file: 34)

Fulltext available through: STIC Full Text Retrieval Options

SciSearch(R) Cited Ref Sci

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17335000 Genuine Article#: 251VA No. References: 37

Thermal gellation and photo-polymerization of di-acrylated Pluronic F 127  $\,$ 

Author: Lee SY; Tae G (REPRINT); Kim YH

Corporate Source: Gwangju Inst Sci & Technol,Res Ctr Biomol Nanotechnol,1 Oryong Dong/Kwangju 500712//South Korea/ (REPRINT); Gwangju Inst Sci & Technol,Res Ctr Biomol Nanotechnol,Kwangju 500712//South Korea/; Gwangju Inst Sci & Technol,Dept Mat Sci & Engn,Kwangju 500712//South Korea/ Journal: JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION . 2007. V 18 . N10 . P 1335-1353

ISSN: 0920-5063 Publication date: 20070000

Publisher: VSP BV, BRILL ACADEMIC PUBLISHERS, PO BOX 9000, 2300 PA LEIDEN, NETHERLANDS

Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

Identifiers-- ...IN-SITU PHOTOPOLYMERIZATION; ADHESION PREVENTION; HYDROGEL BARRIERS; DRUG-DELIVERY; TRIBLOCK COPOLYMER; CONTROLLED-RELEASE; GLYCOL); PROTEIN; GELS; RAT

Research Fronts:

5/K/6 (Item 6 from file: 34)

Fulltext available through: STIC Full Text Retrieval Options

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16272174 Genuine Article#: 147YK No. References: 27

Synthesis and characterization of a novel arginine-grafted dendritic block copolymer for gene delivery and study of its cellular uptake pathway leading to transfection

Author: Kim TI; Baek JU; Yoon JK; Choi JS; Kim K; Park JS (REPRINT)

Corporate Source: Seoul Natl Univ, Sch Chem & Mol Engn, San 56-1, Shillim Dong/Seoul 151742//South Korea/

(REPRINT); Seoul Natl Univ.Sch Chem & Mol Engn, Seoul 151742//South Korea/; Chungnam Natl Univ.Dept Biochem, Taejon 305764//South Korea/

Journal: BIOCONJUGATE CHEMISTRY, 2007, V 18, N2 (MAR-APR), P 309-317

ISSN: 1043-1802 Publication date: 20070300

Publisher: AMER CHEMICAL SOC, 1155 16TH ST, NW, WASHINGTON, DC 20036 USA

Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

Identifiers-- ...COATED PIT FORMATION: MEDIATED ENDOCYTOSIS: PENETRATING PEPTIDES:

TRIBLOCK COPOLYMER; RICH PEPTIDES: TAT PEPTIDE: DNA: EFFICIENCY:

MACROPINOCYTOSIS: POLYPLEXES

Research Fronts:

5/K/7 (Item 7 from file: 34)

Fulltext available through: STIC Full Text Retrieval Options

SciSearch(R) Cited Ref Sci

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15206251 Genuine Article#: 047NJ No. References: 33

Biodegradable heparin-loaded microspheres: Carrier molecular composition and microsphere structure

Author: Luo XL (REPRINT): Oiu D: He B: Wang LJ: Luo J

Corporate Source: Sichuan Univ, Coll Polymer Sci & Polymer Engn, State Key Lab Polymer Mat & Engn, Chengdu 610065//Peoples R China/ (REPRINT); Sichuan Univ.Coll Polymer Sci & Polymer Engn, State Key Lab Polymer Mat & Engn, Chengdu 610065//Peoples R China/ (luoxl@mail.edu.cn)

Journal: MACROMOLECULAR BIOSCIENCE, 2006, V 6, N5 (MAY 23), P 373-381

ISSN: 1616-5187 Publication date: 20060523

Publisher: WILEY-V C H VERLAG GMBH, PO BOX 10 11 61, D-69451 WEINHEIM, GERMANY

Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

Identifiers-- ...DRUG-DELIVERY SYSTEMS: CONTROLLED-RELEASE: TRIBLOCK COPOLYMER; IN-

VITRO; IMMOBILIZATION; POLYMERS; PROTEIN; PACLITAXEL; PARAMETERS; MATRICES

Research Fronts:

5/K/8 (Item 8 from file: 34) SciSearch(R) Cited Ref Sci

Fulltext available through: STIC Full Text Retrieval Options

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15149234 Genuine Article#: BEE77 No. References: 25

A surfactant copolymer facilitates functional recovery of heat-denatured lysozyme

Author: Walsh AM; Mustafi D; Makinen MW; Lee RC (REPRINT)

Corporate Source: Univ Chicago Hosp, Dept Surg, MC 6035, 5841 S Maryland Ave/Chicago//IL/60637 (REPRINT); Univ Chicago Hosp, Dept Surg, Chicago//IL/60637; Univ Chicago, Ctr Integrat Sci., Dept Biochem & Mol Biol.Chicago//IL/60637 (r-lee@uchicago.edu)

. 2005, V 1066, P 321-327

ISSN: 0077-8923 Publication date: 20050000

Publisher: NEW YORK ACAD SCIENCES, 2 EAST 63RD ST, NEW YORK, NY 10021 USACELL INJURY:

MECHANISMS, RESPONSES, AND REPAIR

Series: ANNALS OF THE NEW YORK ACADEMY OF SCIENCES

Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

5/K/9 (Item 9 from file; 34)

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SciSearch(R) Cited Ref Sci

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13821354 Genuine Article#: 915Pl No. References: 27

Viscoelastic and mechanical behavior of recombinant protein elastomers

Author: Nagapudi K; Brinkman WT; Thomas BS; Park JO; Srinivasarao M; Wright E; Conticello VP; Chaikof EL (REPRINT)

Corporate Source: Emory Univ,Dept Surg,1639 Pierce Dr,Room 5105/Atlanta//GA/30322 (REPRINT); Emory Univ,Dept Surg,Atlanta//GA/30322; Emory Univ,Dept Biomed Engn,Atlanta//GA/30322; Georgia Inst Technol,Sch Polymer Text & Fiber Engn,Atlanta//GA/30332; Georgia Inst Technol,Sch Chem & Biochem,Atlanta//GA/30332; Emory Univ,Dept Chem,Atlanta//GA/30322; Georgia Inst Technol,Sch Chem & Biomol Engn,Atlanta//GA/30332; Merck & Co Inc,Rahwav/INJ/07095 (echaiko@emory.edu)

Journal: BIOMATERIALS, 2005, V 26, N23 (AUG), P 4695-4706

ISSN: 0142-9612 Publication date: 20050800

 $\textbf{Publisher:} \ \texttt{ELSEVIER} \ \textbf{SCI} \ \texttt{LTD} \ \textbf{,} \ \textbf{THE} \ \textbf{BOULEVARD}, \ \textbf{LANGFORD} \ \textbf{LANE}, \ \textbf{KIDLINGTON}, \ \textbf{OXFORD} \ \textbf{OX5}$ 

1GB, OXON, ENGLAND

Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

5/K/10 (Item 10 from file: 34)

Fulltext available through: STIC Full Text Retrieval Options

SciSearch(R) Cited Ref Sci

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09352329 Genuine Article#: 397KJ No. References: 33

Enhancement of the excluded-volume effect in protein extraction using triblock copolymer-based aqueous micellar two-phase systems

Author: Tani H (REPRINT); Suzuki Y; Matsuda A; Kamidate T

Corporate Source: Hokkaido Univ,Grad Sch Engn, Div Mol Chem,Sapporo/Hokkaido 0608628/Japan/ (REPRINT); Hokkaido Univ,Grad Sch Engn, Div Mol Chem,Sapporo/Hokkaido 0608628/Japan/

Journal: ANALYTICA CHIMICA ACTA, 2001, V 429, N2 (FEB 23), P 301-309

ISSN: 0003-2670 Publication date: 20010223

Publisher: ELSEVIER SCIENCE BV, PO BOX 211, 1000 AE AMSTERDAM, NETHERLANDS

Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

5/K/11 (Item 11 from file: 34)

Fulltext available through: STIC Full Text Retrieval Options

SciSearch(R) Cited Ref Sci

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06544481 Genuine Article#: ZA359 No. References: 30

On surface modification of polymeric biomaterials

Author: Kummerlowe C (REPRINT); Kammer HW

Corporate Source: FACHHSCH OSNABRUCK, ALBRECHTSTR 30/D-49076 OSNABRUCK//GERMANY/ (REPRINT): UNIV SAINS MALAYSIA, SCH CHEM SCI/MINDEN 11800/PENANG/MALAYSIA/

Journal: JOURNAL OF ADHESION, 1997, V 64, N1-4, P 131-144

ISSN: 0021-8464 Publication date: 19970000

Publisher: GORDON BREACH SCI PUBL LTD, C/O STBS LTD, PO BOX 90, READING, BERKS, ENGLAND

RG1 8JL

Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

5/K/12 (Item 1 from file: 144)

Pascal

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18955122 PASCAL No.: 09-0011316

Deformation Responses of a Physically Cross-Linked High Molecular Weight Elastin-Like Protein Polymer

XIAOYI WU; SALLACH Rory E; CAVES Jeffrey M; CONTICELLO Vincent P; CHAIKOF Elliot L

Department of Surgery, Emory University, Atlanta, Georgia 30332, United States; Biomedical Engineering, Emory University/Georgia Institute of Technology, Atlanta, Georgia 30332, United States; Department of Chemistry, Emory University, Atlanta, Georgia 30332, United States; School of Chemical and Biomolecular Engineering, Georgia Institute of Technology, Atlanta, Georgia 30322, United States

Journal: Biomacromolecules, 2008 , 9 (7) 1787-1794

Language: English

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English Descriptors: Proline copolymer; Alanine copolymer; Glycine copolymer; Triblock copolymer; Model compound; Elastin; Preparation; Biosynthesis; Microorganism culture; Aqueous solution; Concentrated solution; Gelation; Hydrogel; Physical gel; Viscoelasticity; Stress strain...

5/K/13 (Item 2 from file: 144) Pascal

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18553379 PASCAL No.: 08-0133923

Genetic Engineering of Self-Assembled Protein Hydrogel Based on Elastin-like Sequences with Metal Binding Functionality

LOI LAO U; MINWEI SUN; MATSUMOTO Mark; MULCHANDANI Ashok; CHEN Wilfred

Department of Chemical and Environmental Engineering, University of California, Riverside, California 92507, United States Journal: Biomacromolecules, 2007

, 8 (12) 3736-3739

Language: English

Copyright (c) 2008 INIST-CNRS. All rights reserved.

English Descriptors: Recombinant protein; Triblock copolymer; Histidine copolymer; Biosynthesis; Microorganism culture; Genetically modified microorganism; Aqueous solution; Gelation; Hydrogel; Physical ael...

5/K/14 (Item 3 from file: 144)

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18298225 PASCAL No.: 07-0397029

Stabilizer-induced viscosity alteration biases nanoparticle sizing via dynamic light scattering

FILLAFER Christian; WIRTH Michael; GABOR Franz

Department of Pharmaceutical Technology and Biopharmaceutics, Faculty of Life Sciences, University of Vienna, Vienna, Austria

Journal: Langmuir, 2007

, 23 (17) 8699-8702 Language: English

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English Descriptors: Viscosity; Nanoparticle; Sizing; Dynamics; Light scattering; Colloid; Particle; Surfactant; Protein; Suspension; Triblock copolymer; Poloxamer; Nanosphere; Assay; Particle size; Diameter: Fluctuations

5/K/15 (Item 4 from file: 144) (c) 2009 INIST/CNRS. All rights reserved.

18213491 PASCAL No.: 07-0304257

Micelle density regulated by a reversible switch of protein secondary structure

SALLACH Rory E; MIN WEI; BISWAS Nilanjana; CONTICELLO Vincent P; LECOMMANDOUX Sebastien; DLUHY Richard A; CHAIKOF Elliot L

Department of Biomedical Engineering, Georgia Institute of Technology, Atlanta, Georgia 30332, United States; Departments of Surgery and Biomedical Engineering, Emory University School of Medicine, United States; Department of Chemistry, University of Georgia, Athens, Georgia, United States; Department of Chemistry, Emory University, Atlanta, Georgia 30322, United States; CNRS Laboratory of Organic Polymer Chemistry, University Bordeaux, Talence, France; School of Chemical and Biomolecular Engineering, Georgia Institute of Technology, Atlanta, Georgia 30332, United States

Journal: Journal of the American Chemical Society

2006, 128 (36 ) 12014-12019

Language: English

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English Descriptors: Micelle; Selector switch; Protein; Secondary structure; Molecular structure; Recombinant DNA; **Triblock copolymer**; Hydrophilic compound; Hydrophobic compound; El**astin**; Peptidomimetic compound; Dilute solution; Amphiphilic compound; Chemical reduction; Helical structure; Folding; Polymer; Reaction mechanism; Drug

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17874475 PASCAL No.: 06-0473787

Characterization of the changes in secondary structure and architecture of elastin: Mimetic triblock polypeptides during thermal gelation  ${\bf r}$ 

D'SOUZA Ajit Joseph M; HART David S; MIDDAUGH C Russell; GEHRKE Stevin H

Molecular Biology, University of Wyoming, Laramie, Wyoming 82071, United States; Pharmaceutical Chemistry, The University of Kansas, Lawrence, Kansas 66045, United States; Chemical and Petroleum Engineering, The University of Kansas, Lawrence, Kansas 66045, United States
Journal: Macromolecules. 2006

. 39 (20) 7084-7091

Language: English

Copyright (c) 2006 INIST-CNRS. All rights reserved.

English Descriptors: Valine copolymer; Proline copolymer; Glycine copolymer; Alanine copolymer; Glutamic acid copolymer; Triblock copolymer; Model compound; Elastin; Aqueous solution; Gelation; Hydrogel; Physical gel; Conformational transition; Temperature effect; Experimental study

5/K/17 (Item 6 from file: 144)

### Pascal

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17542980 PASCAL No.: 06-0129823

Structural control of self-assembled nanofibers by artificial beta -sheet peptides composed of D- or L-lsomer

KOGA Tomoyuki; MATSUOKA Miho; HIGASHI Nobuyuki Department of Molecular Science and Technology, Faculty of Engineering. Doshisha University, Kyotanabe, Kyoto 610-0321, Japan Journal: Journal of the American Chemical Society , 2005, 127 (50) 17596-17597 Language: English

Copyright (c) 2006 INIST-CNRS. All rights reserved.

English Descriptors: Oligopeptides; Amphiphilic polymer; Triblock copolymer; Amyloid protein Aa; Nanostructure; Stereospecificity; Circular dichroism; Molecular aggregation; Molecular assembly; Molecular association; Atomic force microscopy

5/K/18 (Item 7 from file: 144) Pascal (c) 2009 INIST/CNRS. All rights reserved.

17462640 PASCAL No.: 06-0045893

Alterations in physical cross-linking modulate mechanical properties of two-phase protein polymer networks

XIAOYI WU; SALLACH Rory; HALLER Carolyn A; CAVES Jeffrey A; NAGAPUDI Karthik; CONTICELLO Vincent P; LEVENSTON Marc E; CHAIKOF Elliot L

Department of Surgery, Emory University, Atlanta, Georgia 30332, United States; Department of Biomedical Engineering, Emory University School of Medicine and Georgia Institute of Technology, Atlanta, Georgia 30332, United States; Merck & Company, Rahway, New Jersey 07095, United States; Department of Chemistry, Emory University, Atlanta, Georgia 30332, United States; School of Mechanical, Georgia Institute of Technology, Atlanta,

Georgia 30322, United States; School of Chemical Engineering, Georgia Institute of Technology, Atlanta, Georgia 30322, United States Journal: Biomacromolecules, 2005

, 6 (6) 3037-3044

Language: English

Copyright (c) 2006 INIST-CNRS. All rights reserved.

English Descriptors: Valine copolymer; Proline copolymer; Glycine copolymer; Terpolymer; Triblock copolymer; Model compound; Elastin; Stress strain relation; Tensile stress; Plastic deformation; Mechanism; Stress relaxation; Creep curve; Dynamic mechanical properties...

5/K/19 (Item 8 from file: 144) Pascal (c) 2009 INIST/CNRS. All rights reserved.

17236813 PASCAL No.: 05-0308496

Reversible hydrogels from self-assembling genetically engineered protein block copolymers

CHUNYU XU; BREEDVELD Victor; KOPECEK Jindtich
Departments of Pharmaceutics and Pharmaceutical Chemistry and of
Bioengineering, University of Utah, Salt Lake City, Utah 84112, United
States; School of Chemical & Biomolecular Engineering, Georgia
Institute of Technology, Atlanta, Georgia 30332, United States
Journal: Biomacromolecules, 2005
, 6 (3) 1739-1749

Language: English

Copyright (c) 2005 INIST-CNRS. All rights reserved.

English Descriptors: Recombinant protein; Triblock copolymer; Ethylene oxide copolymer; Microstructure; Aminoacid sequence; Aqueous solution; Conformation; Gelation; Physical gel; Hydrogel; Mechanism... 5/K/20 (Item 9 from file; 144) Pascal

(c) 2009 INIST/CNRS. All rights reserved.

17087645 PASCAL No.: 05-0153209

Protein-based thermoplastic elastomers

NAGAPUDI Karthik; BRINKMAN William T; LBISEN Johannes; THOMAS Benjamin S; WRIGHT Elizabeth R; HALLER Carolyn; XIAOYI WU; APKARIAN Robert P; CONTICELLO Vincent P; CHAIKOF Elliot L

Departments of Surgery and Biomedical Engineering, Emory University School of Medicine and Georgia Institute of Technology, Atlanta, Georgia 30332, United States; School of Polymer, Textile, and Fiber Engineering, Georgia Institute of Technology, Atlanta, Georgia 30322, United States; Department of Chemistry, Emory University, Atlanta, Georgia 30332, United States; Integrated Microscopy & Microanalytical Facility, Emory University, Atlanta, Georgia 30332, United States; School of Chemical and

Biomolecular Engineering, Georgia Institute of Technology, Atlanta, Georgia 30322, United States

Journal: Macromolecules, 2005, 38 (2) 345-354

Language: English

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English Descriptors: Aminoacid copolymer; Triblock copolymer; Recombinant protein; Thermoplastic rubber; Control release polymer; Drug carrier; Biosynthesis; Genetic engineering; Morphology; Intramolecular mobility; Solid state...

5/K/21 (Item 10 from file: 144)

### Pascal

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17020412 PASCAL No.: 05-0083137

Triblock copolymers: synthesis, characterization, and delivery of a model protein

CHEN Sibao; PIEPER Robert; WEBSTER Dean C; SINGH Jagdish

Department of Pharmaceutical Sciences, North Dakota State University, PO Box 5055, Fargo, ND 58105, United States; Department of Polymer and Coatings, North Dakota State University. PO Box 5055, Fargo, ND 58105, United States

Journal: International journal of pharmaceutics, 2005, 288 (2)

207-218 Language: English

Copyright (c) 2005 INIST-CNRS. All rights reserved.

English Descriptors: Lysozyme; Triblock copolymer; Characterization; Protein; Controlled release form; Thermal labile product; Biodegradability; Control release polymer; Biological activity; Pharmaceutical technology; Antiviral

5/K/22 (Item 11 from file: 144) Pascal

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16083970 PASCAL No.: 03-0234917

Adsorbed surfactants for affinity chromatography: End-group modification of ethylene glycol polymers

YANIC Cemile; BREDENKAMP Martin W; JACOBS Edmund P; SWART Pieter

Institute of Polymer Science, Stellenbosch University, Private Bag X1, Matieland 7602, South Africa; Department of Chemistry, Stellenbosch University, Private Bag X1, Matieland 7602, South Africa; Department of Biochemistry, Stellenbosch University, Private Bag X1, Matieland 7602,

South Africa
Journal: Bioorganic & medicinal chemistry letters
, 2003, 13 (7)
1381-1384
Lanquage: English

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English Descriptors: Affinity chromatography; Separation; Carrier protein; Albumin; Stationary phase; Triblock copolymer; Ethylene oxide copolymer; Propylene oxide copolymer; Surfactant polymer; Chemical modification; End group; Primary amine...

5/K/23 (Item 12 from file: 144) Pascal

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14946873 PASCAL No.: 01-0098634

Protein release from physically crosslinked hydrogels of the PLA/PEO/PLA triblock copolymer-type

MOLINA Inmaculada; SUMING LI; MARTINEZ Manuel Bueno; VERT Michel

Research Centre for Artificial Biopolymers, UMR CNRS 5473, University Montpellier 1, Faculty of Pharmacy, 15 Ave. Charles Flahault, 34060 Montpellier, France

Journal: Biomaterials, 2001

, 22 (4) 363-369 Language: English

Copyright (c) 2001 INIST-CNRS. All rights reserved.

English Descriptors: Triblock copolymer; Crosslinking; Hydrogel; Protein; Phase separation; Controlled release form; Biodegradability; Ethylene glycol; Lactic acid polymer; Fibrinogen; In vitro 5/K/24 (Item 13 from file: 144)

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14120145 PASCAL No.: 99-0315972

Aqueous two-phase systems containing self-associating block copolymers : Partitioning of hydrophilic and hydrophobic biomolecules

SVENSSON M; BERGGREN K; VEIDE A; TJERNELD F

Department of Physical Chemistry 1, Center for Chemistry and Chemical Engineering, Lund University, P.O. Box 124, 221 00 Lund, Sweden; Department of Biochemistry, Center for Chemistry and Chemical Engineering, Lund University, P.O. Box 124, 221 00 Lund, Sweden; Department of Biotechnology, The Royal Institute of Technology, 100 44 Stockholm, Sweden

Journal: Journal of chromatography, 1999, 839 (1-2) 71-83

Language: English

Copyright (c) 1999 INIST-CNRS. All rights reserved.

...English Descriptors: chromatography; Biphasic system; Micelle; Non ionic surfactant; Surfactant polymer; Ethylene oxide copolymer; Propylene oxide copolymer; Triblock copolymer; Dextran; Phase diagram;

Protein: Inves

Protein; Lysozyme; Serum albumin; Cytochrome c; Recombinant
protein; Binding protein; IgG; Staphylococcus; Bacteriorhodopsin;
Peptides; Gramicidin; Polypeptide...

5/K/25 (Item 14 from file: 144)

Pascal

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13880804 PASCAL No.: 99-0059726

Plasma protein adsorption on biodegradable microspheres consisting of poly(D, L-lactide-co-glycolide), poly(L-lactide) or ABA triblock copolymers containing poly(oxyethylene) influence of production method and polymer

composition

LUECK M; PISTEL K F; LI Y X; BLUNK T; MUELLER R H; KISSEL T

Department of Pharmaceutics, Biopharmaceutics and Biotechnology, The Free University of Berlin, Kelchstrasse 31, 12169 Berlin, Germany; Department of Pharmaceutics and Biopharmaceutics, Philipps-University, Marburg, Germany; Massachusetts Institute of Technology, Cambridge MA, United States Journal; Journal of controlled release,

Journal: Journal of controlled release

1998, 55 (2-3)

107-120

Language: English

Copyright (c) 1999 INIST-CNRS. All rights reserved.

...English Descriptors: Microsphere; Drug carrier; Control release polymer; Lactic acid polymer; Ester copolymer; Anhydride polymer; Aliphatic polymer; Triblock copolymer; Ethylene oxide polymer; Serum protein; Adsorption; Two dimensional electrophoresis; Spray drying; Water oil water emulsion; Microencapsulation

? t s5/full/10.11

5/9/10 (Item 10 from file: 34)

Fulltext available through: STIC Full Text Retrieval Options

SciSearch(R) Cited Ref Sci

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09352329 Genuine Article#: 397KJ Number of References: 33

Enhancement of the excluded-volume effect in protein extraction using triblock copolymer-based aqueous micellar two-phase systems

Author: Tani H (REPRINT); Suzuki Y; Matsuda A; Kamidate T

Corporate Source: Hokkaido Univ, Grad Sch Engn, Div Mol Chem, Sapporo/Hokkaido 0608628/Japan/

(REPRINT); Hokkaido Univ, Grad Sch Engn, Div Mol Chem, Sapporo/Hokkaido 0608628/Japan/

Journal: ANALYTICA CHIMICA ACTA, 2001, V 429, N2 (FEB 23), P 301-309

ISSN: 0003-2670 Publication date: 20010223

Publisher: ELSEVIER SCIENCE BV, PO BOX 211, 1000 AE AMSTERDAM, NETHERLANDS

Language: English Document Type: ARTICLE

Geographic Location: Japan

Journal Subject Category: CHEMISTRY, ANALYTICAL

Abstract: Triblock copolymer surfactants consisting of poly(ethylene oxide) (PEO) and poly(propylene oxide) (PPO), Pluronic L61 (PEO-PPO-PEO, L61) and Pluronic 25R2 (PPO-PEO-PPO, 25R2) were exploited in aqueous micellar two-phase systems for the protein extraction. The extraction was based on the phase separation into surfactant-depleted and -condensed phases (an aqueous and a surfactant-rich phases, respectively) upon warming aqueous micellar solutions of triblock copolymer. In both systems, hydrophilic proteins such as albumin were not extracted into the surfactant-rich phase. On the other hand, hydrophobic cytochrome b(5) was well extracted in the L61 system due to hydrophobic interaction. However, the extraction of cytochrome b(5) was not observed in the 25R2 system. This abnormal extractability of cytochrome b5 in the 25R2 system was explained by the enhanced excluded-volume interaction between cytochrome b(5) and 25R2 micellar network in the surfactant-rich phase, which overcomes the hydrophobic interaction. Additionally, ionic surfactants were added into the systems for controlling extractability of proteins. In the 25R2 system, cationic tetradecyltrimethylammonium was effective for extracting anionic cytochrome bs against the excluded-volume effect, while not for anionic albumin because of its large molecular weight. In 25R2 system containing ionic surfactant, the partitioning of proteins were found to be governed by the hydrophobic, excluded-volume, and electrostatic interactions. Micellar network formed by 25R2 type of surfactant with a strong excluded-volume interaction could provide new selective extraction systems for the separation of proteins. (C) 2001 Elsevier Science B.V. All rights reserved.

Descriptors.--Author Keywords: triblock copolymer; phase separation; protein partitioning; excluded-volume interaction: hydrophobic interaction: electrostatic interaction

Identifiers-- KeyWord Plus(R): CLOUD-POINT EXTRACTIONS; MEMBRANE-PROTEINS; PARTIAL-PURIFICATION; LIVER-MICROSOMES; 2-PHASE SYSTEMS; TRITON X-114; SEPARATION;

REDUCTASE; SURFACTANTS; DETERGENTS

## Cited References:

BORDIER C. 1981, V256, P1604, J BIOL CHEM FASMAN GB, 1986, V2, HDB BIOCH MOL BIOL HINZE WL, 1993, V24, P133, CRIT REV ANAL CHEM IMAI Y, 1976, V80, P267, J BIOCHEM-TOKYO KAMATAKI T, 1981, V103, P1, BIOCHEM BIOPH RES CO LEHNINGER AL. 1993, PRINCIPLE BIOCH LIU CL, 1995, V41, P991, AICHE J LIU CL, 1995, P49, AQUEOUS BIPHASIC SEP LIU CL, 1996, V52, P185, BIOTECHNOL BIOENG MIHARA K, 1972, V71, P725, J BIOCHEM-TOKYO MORTENSEN K, 1997, V30, P503, MACROMOLECULES MORTENSEN K, 1994, V27, P5654, MACROMOLECULES MORTENSEN K. 1993, V26, P805, MACROMOLECULES NIKAS YJ, 1992, V25, P4797, MACROMOLECULES OMURA T, 1970, V67, P249, J BIOCHEM-TOKYO QUINA FH, 1999, V38, P4150, IND ENG CHEM RES RIGHETTI PG, 1976, V127, P1, J CHROMATOGR SAITOH T. 1994, V10, P299, ANAL SCI SAITOH T, 1995, V14, P213, TRAC-TREND ANAL CHEM SANCHEZFERRER A, 1994, V29, P275, CRIT REV BIOCHEM MOL SEMENOV AN, 1994, V27, P5654, MACROMOLECULES SMITH PK, 1985, V150, P76, ANAL BIOCHEM SVENSSON M. 1997, V761, P91, J CHROMATOGR A

TAKEMORI S, 1993, P51, CYTOCHROME P450 TANI H, 1998, V14, P875, ANAL SCI TANI H, 1998, V47, P965, BUNSEKI KAGAKU TANI H, 1997, V56, P311, BIOTECHNOL BIOENG TANI H. 1998, V708, P294, J CHROMATOGR B TANI H. 1997, V13, P925, ANAL SCI TANI H, 1997, V780, P229, J CHROMATOGR A TAUBER AL 1985, V66, P673, BLOOD TERSTAPPEN GC, 1993, V28, P263, J BIOTECHNOL

YASUKOCHI Y, 1976, V251, P5337, J BIOL CHEM

5/9/11 (Item 11 from file: 34)

Fulltext available through: STIC Full Text Retrieval Options

SciSearch(R) Cited Ref Sci

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06544481 Genuine Article#: ZA359 Number of References: 30

On surface modification of polymeric biomaterials

Author: Kummerlowe C (REPRINT); Kammer HW

Corporate Source: FACHHSCH OSNABRUCK, ALBRECHTSTR 30/D-49076 OSNABRUCK//GERMANY/ (REPRINT): UNIV SAINS MALAYSIA.SCH CHEM SCI/MINDEN 11800/PENANG/MALAYSIA/

Journal: JOURNAL OF ADHESION, 1997, V 64, N1-4, P 131-144

ISSN: 0021-8464 Publication date: 19970000

Publisher: GORDON BREACH SCI PUBL LTD, C/O STBS LTD, PO BOX 90, READING, BERKS, ENGLAND RG1 8IL

Language: English Document Type: ARTICLE

Geographic Location: GERMANY: MALAYSIA

Subfile: CC PHYS--Current Contents, Physical, Chemical & Earth Sciences; CC ENGI --Current Contents, Engineering, Computing & Technology

Journal Subject Category: ENGINEERING, CHEMICAL; MATERIALS SCIENCE; MECHANICS

Abstract: Surface modification with hydrophilic polymers has been beneficial in improving blood compatibility of biomaterials. Formation of dense and tightly-bonded surface layers may prevent plasma protein adsorption owing to steric repulsion. General conditions for formation of layers, protecting blood components from direct contacts with the surface, are discussed. It seems to be necessary to ensure a delicate balance between adsorption energy of the attached chains and their length. The crucial point is to get a high grafting density which is more influential than high chain length. Length should be calibrated to the size of protein molecules to meet both effective repulsion and high density of the protecting chains and to avoid chain displacement by plasma proteins.

Descriptors -- Author Keywords: grafting density; steric repulsion; hydrophobic interaction; biocompatibility;

protein adsorption; poly(ethylene oxide); triblock copolymer

Identifiers-- KeyWord Plus(R): POLY(ETHYLENE OXIDE): PLATELET DEPOSITION; PROTEIN ADSORPTION; HYDROGEL; HEPARIN; BIOCOMPATIBILITY; ADHESION; ALBUMIN

Cited References:

ALEXANDER S. 1977, V38, P983, J PHYS

AMIJI M. 1992, V13, P682, BIOMATERIALS

AMIJI M, 1993, V4, P217, J BIOMAT SCI-POLYM E ANDERSON JM, 1985, V1, P111, CRC CRIT R BIOCOMP

ANDRADE JD, 1986, V79, P1, ADV POLYM SCI

ANDRADE JD, 1987, V33, P75, T AM SOC ART INT ORG

BRINKMAN E, 1990, V11, P200, BIOMATERIALS

CHOLAKIS CH. 1989, V23, P399, J BIOMED MATER RES DESAI NP, 1991, V25, P829, J BIOMED MATER RES FUJIMOTO K, 1993, V27, P335, J BIOMED MATER RES GOLANDER CG. 1988, P.5 COLL CHEM C BAL. GOLDBERG EP. 1980. BIOMEDICAL POLYM POL GRISTINA AG. 1987, V237, P1588, SCIENCE HANKER JS, 1988, V242, P885, SCIENCE HAWK GL, 1972, V2, P193, PREP BIOCHEM IKADA Y, 1984, V57, P103, ADV POLYM SCI KISHIDA A, 1992, V13, P113, BIOMATERIALS LEE J, 1992, V131, P682, J COLLOID INTERF SCI LIPATOV YS, 1984, COLLOID CHEM POLYM LIU SO, 1989, V1, P111, J BIOMATER SCI POLYM MURRAY RK, 1990, P610, BIOCHEMISTRY-US NAGAOKA S, 1990, V11, P119, BIOMATERIALS NAGAOKA S. 1987, V33, P76, T AM SOC ART INT ORG NOGUCHI T, 1991, V2, P101, J APPL BIOMATER NOLDE A, 1986, V25, P257, ADV INTERFACE SCI PASHLEY RM, 1985, V229, P1088, SCIENCE PEPPAS NA, 1976, V14, P441, J POLYM SCI POL CHEM SMITH BAH, 1993, V27, P89, J BIOMED MATER RES TAUNTON HJ. 1988, V21, P3336, MACROMOLECULES TOMITA N. 1992, V2, P71, BIO-MED MATER ENG

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? d s
Set.
       Items Description
S1
           ٥
               S (PROTEIN TRIBLOCK COPOLYMER)
S2
        4857
               S (TRIBLOCK COPOLYMER)
S3
          21
               S S2(N5)(PROTEIN OR PEPTIDE)
S4
          25
               S S2(N5)(PROTEIN OR PEPTIDE OR ELASTIN OR ELP)
$5
          2.5
               RD (unique items)
? s s2 and (ELP or elastin)
        4857 S2
        3092
               ELP
       58686 ELASTIN
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9 S S2 AND (ELP OR ELASTIN)

86

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2 rd
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>>>W: Duplicate detection is not supported for File 391.

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S7 9 RD (UNIQUE ITEMS)

? t s7/medium/all

7/3/1 (Item 1 from file: 5)

Fulltext available through: STIC Full Text Retrieval Options

Biosis Previews(R)

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17075520 Biosis No.: 200300034239

Self-assembly of block copolymers derived from elastin-mimetic polypeptide sequences.

Author: Wright Elizabeth R; Conticello Vincent P (Reprint)

Author Address: Department of Chemistry, Emory University, 1515 Pierce Drive, Atlanta, GA, 30322,

USA\*\*USA

Author E-mail Address: vcontic@emory.edu

Journal: Advanced Drug Delivery Reviews 54 (8): p 1057-1073 18 October, 2002 2002

Medium: print

ISSN: 0169-409X

Document Type: Article; Literature Review

Record Type: Citation Language: English

7/3/2 (Item 1 from file: 34)

Fulltext available through: STIC Full Text Retrieval Options

SciSearch(R) Cited Ref Sci

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13821354 Genuine Article#: 915Pl No. References: 27

Viscoelastic and mechanical behavior of recombinant protein elastomers

Author: Nagapudi K; Brinkman WT; Thomas BS; Park JO; Srinivasarao M; Wright E; Conticello VP; Chaikof EL (REPRINT)

Corporate Source: Emory Univ,Dept Surg,1639 Pierce Dr,Room 5105/Atlanta//GA/30322 (REPRINT); Emory Univ,Dept Surg,Atlanta//GA/30322; Emory Univ,Dept Biomed Engn,Atlanta//GA/30322; Georgia Inst Technol,Sch Polymer Text & Fiber Engn,Atlanta//GA/30332; Georgia Inst Technol,Sch Chem & Biochem,Atlanta//GA/30332; Emory Univ,Dept Chem,Atlanta//GA/30322; Georgia Inst Technol,Sch Chem & Biomol Engn,Atlanta//GA/30332; Merck & Co Inc Rahway/NJ/07095 (echaiko@emory.edu)

Journal: BIOMATERIALS, 2005, V 26, N23 (AUG), P 4695-4706

ISSN: 0142-9612 Publication date: 20050800

 $\textbf{Publisher:} \ \texttt{ELSEVIER} \ \textbf{SCI} \ \texttt{LTD} \ , \ \texttt{THE} \ \texttt{BOULEVARD}, \ \texttt{LANGFORD} \ \texttt{LANE}, \ \texttt{KIDLINGTON}, \ \texttt{OXFORD} \ \texttt{OX5}$ 

1GB, OXON, ENGLAND

Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

7/3/3 (Item 1 from file: 144) Pascal

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18955122 PASCAL No.: 09-0011316

Deformation Responses of a Physically Cross-Linked High Molecular Weight  ${\bf Elastin}$ -Like Protein Polymer

XIAOYI WU; SALLACH Rory E; CAVES Jeffrey M; CONTICELLO Vincent P; CHAIKOF Elliot L

Department of Surgery, Emory University, Atlanta, Georgia 30332, United States; Biomedical Engineering, Emory University/Georgia Institute of Technology, Atlanta, Georgia 30332, United States; Department of Chemistry, Emory University, Atlanta, Georgia 30332, United States; School of Chemical and Biomolecular Engineering, Georgia Institute of Technology, Atlanta, Georgia 30322, United States

Journal: Biomacromolecules, 2008

, 9 (7) 1787-1794

Language: English

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7/3/4 (Item 2 from file: 144)

Pascal

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18553379 PASCAL No.: 08-0133923

Genetic Engineering of Self-Assembled Protein Hydrogel Based on **Elastin**-like Sequences with Metal Binding Functionality

LOI LAO U; MINWEI SUN; MATSUMOTO Mark; MULCHANDANI Ashok; CHEN Wilfred

Department of Chemical and Environmental Engineering, University of California, Riverside, California 92507, United States

Journal: Biomacromolecules, 2007

, 8 (12) 3736-3739

Language: English

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7/3/5 (Item 3 from file: 144)

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18213491 PASCAL No.: 07-0304257

Micelle density regulated by a reversible switch of protein secondary structure

SALLACH Rory E; MIN WEI; BISWAS Nilanjana; CONTICELLO Vincent P; LECOMMANDOUX Sebastien; DLUHY Richard A; CHAIKOF Elliot L

Department of Biomedical Engineering, Georgia Institute of Technology, Atlanta, Georgia 30332, United States; Departments of Surgery and Biomedical Engineering, Emory University School of Medicine, United States; Department of Chemistry, University of Georgia, Athens, Georgia, United States; Department of Chemistry, Emory University, Atlanta, Georgia 30322, United States; CNRS Laboratory of Organic Polymer Chemistry, University Bordeaux, Talence, France; School of Chemical and Biomolecular Engineering, Georgia Institute of Technology, Atlanta, Georgia 30332, United States Journal: Journal of the American Chemical Society

2006, 128 (36

) 12014-12019 Language: English

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7/3/6 (Item 4 from file: 144) Pascal (c) 2009 INIST/CNRS. All rights reserved.

17874475 PASCAL No.: 06-0473787

Characterization of the changes in secondary structure and architecture of elastin : Mimetic triblock polypeptides during thermal gelation

D'SOUZA Ajit Joseph M; HART David S; MIDDAUGH C Russell; GEHRKE Stevin H

Molecular Biology, University of Wyoming, Laramie, Wyoming 82071, United States; Pharmaceutical Chemistry, The University of Kansas, Lawrence, Kansas 66045, United States: Chemical and Petroleum Engineering, The University of Kansas, Lawrence, Kansas 66045, United States Journal: Macromolecules, 2006

, 39 (20) 7084-7091

Language: English

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7/3/7 (Item 5 from file: 144)

Pascal

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17462640 PASCAL No.: 06-0045893

Alterations in physical cross-linking modulate mechanical properties of two-phase protein polymer networks

XIAOYI WU; SALLACH Rory; HALLER Carolyn A; CAVES Jeffrey A; NAGAPUDI Karthik; CONTICELLO Vincent P; LEVENSTON Marc E; CHAIKOF Elliot L

Department of Surgery, Emory University, Atlanta, Georgia 30332, United States; Department of Biomedical Engineering, Emory University School of Medicine and Georgia Institute of Technology, Atlanta, Georgia 30332, United States; Merck & Company, Rahway, New Jersey 07095, United States; Department of Chemistry, Emory University, Atlanta, Georgia 30332, United States; School of Mechanical, Georgia Institute of Technology, Atlanta,

Georgia 30322, United States; School of Chemical Engineering, Georgia Institute of Technology, Atlanta, Georgia 30322, United States Journal: Biomacromolecules, 2005

, 6 (6) 3037-3044

Language: English

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7/3/8 (Item 6 from file: 144)

Pascal

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17136776 PASCAL No.: 05-0204771

Stimulus responsive behavior of elastin-based side chain polymers

AYRES Lee; KOCH Kaspar; HANS P; ADAMS H M; VAN HEST Jan C M

Organic Chemistry Department, Institute for Molecules and Materials, Radboud University Nijmegen, Toernooiveld 1, 6525 ED, Nijmegen, Netherlands Journal: Macromolecules, 2005

, 38 (5) 1699-1704

Language: English

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7/3/9 (Item 7 from file: 144)
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16238373 PASCAL No.: 03-0399189

Elastin- based side- chain polymers synthesized by ATRP

AYRES Lee; VOS Matthijn R J; ADAMS P J Hans M; SHKLYAREVSKIY Igor O; VAN HEST Jan C M

NSRIM Organic Chemistry Department, University of Nijmegen, Toernooiveld 1, 6525 ED Nijmegen, Netherlands; NSRIM High Field Magnet Laboratory, University of Nijmegen, Toernooiveld 7, 6525 ED Nijmegen, Netherlands Journal: Macromolecules, 2003, 36 (16) 5967-5973

Language: English

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Set Items Description

S1 0 S (PROTEIN TRIBLOCK COPOLYMER)

S2 4857 S (TRIBLOCK COPOLYMER)

S3 21 S S2(N5)(PROTEIN OR PEPTIDE)

S4 25 S S2(N5)(PROTEIN OR PEPTIDE OR ELASTIN OR ELP)

S5 25 RD (unique items)

S6 9 S S2 AND (ELP OR ELASTIN)

S7 9 RD (unique items)

## ? S S2 AND collagen

4857 S2

914608 COLLAGEN

S8 5 S S2 AND COLLAGEN

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>>>W: Duplicate detection is not supported for File 391.

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S9 5 RD (UNIQUE ITEMS)

#### ? ts9/medium/all

9/3/1 (Item 1 from file: 34)

Fulltext available through: STIC Full Text Retrieval Options

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12340324 Genuine Article#: 753ZL No. References: 22

 $Thermosensitive\ hydrogel\ as\ a\ Tgf-beta\ 1\ gene\ delivery\ vehicle\ enhances\ diabetic\ wound\ healing$ 

Author: Lee PY; Li ZH; Huang L (REPRINT)

Corporate Source: Univ Pittsburgh, Sch Pharm, Ctr Pharmacogenet, 633 Salk Hall/Pittsburgh//PA/15213 (REPRINT); Univ Pittsburgh, Sch Pharm, Ctr Pharmacogenet, Pittsburgh//PA/15213

Journal: PHARMACEUTICAL RESEARCH, 2003, V 20, N12 (DEC), P 1995-2000

ISSN: 0724-8741 Publication date: 20031200

9/3/2 (Item 1 from file: 144)

Pascal

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18886448 PASCAL No.: 08-0494646

Temperature-Sensitive Poly(caprolactone-co-trimethylene carbonate)-Poly(ethylene glycol)-Poly(caprolactone-co-trimethylene carbonate) as in Situ Gel-Forming Biomaterial

SO HYUN PARK; BO GYU CHOI; MIN KYUNG JOO; DONG KEUN HAN; YOUN SOO SOHN; JEONG Byeongmoon

Department of Chemistry, Division of Nano Sciences, Ewha Womans University, Daehyun-Dong, Seodaemun-Ku, Seoul 120-750, Korea, Republic of; Biomaterials Research Center, Korea Institute of Science and Technology (KIST), P.O. Box 131, Cheongryang, Seoul 130-650, Korea, Republic of Journal: Macromolecules, 2008

Journal: Macromolecules, , 41 (17) 6486-6492

Language: English

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9/3/3 (Item 2 from file: 144)

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18616626 PASCAL No.: 08-0206873

Thermoreversible Hydrogels from RAFT-Synthesized BAB Triblock Copolymers : Steps toward Biomimetic Matrices for Tissue Regeneration

KIRKLAND Stacey E; HENSARLING Ryan M; MCCONAUGHY Shawn D; YANLIN GUO; JARRETT William L; MCCORMICK Charles L

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Journal: Biomacromolecules, 2008, 9 (2) 481-486

Language: English

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9/3/4 (Item 3 from file: 144)

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17501706 PASCAL No.: 06-0086787

Biodendrimer-based hydrogel- scaffolds for cartilage tissue repair

SOENTJENS Serge H M; NETTLES Dana L; CARNAHAN Michael A; SETTON Lori A; GRINSTAFF Mark W

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Journal: Biomacromolecules, 2006, 7 (1) 310-316

Language: English

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9/3/5 (Item 4 from file: 144) Pascal

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13268280 PASCAL No.: 97-0541437

Biocompatibility of ABA triblock copolymer microparticles consisting of poly(L-lactic-co-glycolic-acid) A-blocks attached to central poly(oxyethylene) B-blocks in rats after intramuscular injection

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Journal: European journal of pharmaceutics and biopharmaceutics, 1997, 43 (1) 19-28

Language: English

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Estimated Cost Summary

Project		Client		Charge Code		Searcher		Job		Service Code	User Number
							Suzanne Noakes Subsession				276629
Date 04/27/2009		Time	Time		SessionID				Subaccount		
		09:58:29		131		3					
Data Base	Dial Units	Access Charge	Print Credit	Types	Prints	Report	Rank	Links	css	Total	
155	0.0380	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	
5	0.3780	2.34	0.00	2.44	0.00	0.00	0.00	0.00	0.00	4.78	
24	0.0380	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	
28	0.0240	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	
34	1.1170	31.80	0.00	124.20	0.00	0.00	0.00	0.00	0.00	156.00	
35	0.0350	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	
40	0.0240	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	
41	0.0240	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	
44	0.0380	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.31	
45	0.0690	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	
50	0.0350	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	
65	0.0280	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	
71	0.1390	1.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.51	
72	0.2050	2.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.83	
73	0.2050	2.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.83	
76	0.0380	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	
91	0.0240	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	
98	0.0310	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	
110	0.0170	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	
135	0.0420	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	
136	0.0310	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	
143	0.0280	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	
144	0.6210	3.17	0.00	48.00	0.00	0.00	0.00	0.00	0.00	51.17	
154	0.0420	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	
164	0.0490	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	
172	0.0730	1.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.01	
185	0.0310	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	
357	0.0280	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.76	
369	0.0380	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	
370	0.0280	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	
391	0.0380	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
434	0.0490	1.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.38	

467	0.0350	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23
138	0.0420	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16
149	0.0310	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14
156	0.0490	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30
159	0.0280	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
162	0.0490	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23
266	0.0380	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14
399	0.0550	0.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.73
444	0.0620	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.31
Sub Totals	3.9940	\$53.85	\$0.00	\$174.64	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$228.49
Session Totals	4.3750	\$53.99		Telecom	\$5.26					\$233.89

Ended session: 4/27/09 10:58:34 AM